

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT						
NATURE OF CONVEYANCE:	ASSIGNMENT						
CONVEYING PARTY DATA							
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Tatsuo Nitta</td> <td>10/26/2012</td> </tr> <tr> <td>Takayuki Kawabe</td> <td>10/26/2012</td> </tr> </tbody> </table>		Name	Execution Date	Tatsuo Nitta	10/26/2012	Takayuki Kawabe	10/26/2012
Name	Execution Date						
Tatsuo Nitta	10/26/2012						
Takayuki Kawabe	10/26/2012						
RECEIVING PARTY DATA							
Name:	Kabushiki Kaisha Toshiba						
Street Address:	1-1, Shibaura 1-chome,						
City:	Minato-ku, Tokyo						
State/Country:	JAPAN						
Postal Code:	105-8001						
PROPERTY NUMBERS Total: 1							
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13673863</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13673863		
Property Type	Number						
Application Number:	13673863						
CORRESPONDENCE DATA							
Fax Number:	9497609502						
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>							
Phone:	9497600404						
Email:	efiling@knobbe.com						
Correspondent Name:	Bridget A. Smith						
Address Line 1:	2040 Main Street						
Address Line 2:	14th Floor						
Address Line 4:	Irvine, CALIFORNIA 92614						
ATTORNEY DOCKET NUMBER:	SUTOSH.1190AUS						
NAME OF SUBMITTER:	Bridget A. Smith						
Total Attachments: 2 source=SUTOSH_1190AUS_assignment#page1.tif source=SUTOSH_1190AUS_assignment#page2.tif							

OP \$40.00 13673863

ASSIGNMENT

AGG063713-USA-A
(12S0635)

In consideration of value received, I, having a residence as stated below above my name, the sole inventor (if only one name is listed below) or a joint inventor (if plural inventors are listed below) of an invention described in an application for United States patent entitled:

DISK STORAGE APPARATUS AND DATA PROTECTION METHOD

have sold and assigned and do hereby sell and assign to
KABUSHIKI KAISHA TOSHIBA
a Japanese corporation, having a business address at
1-1, Shibaura 1-chome, Minato-ku, Tokyo 105-8001, Japan

its successors, assigns or nominees, hereinafter referred to as "Assignee", my entire right, title and interest in and to said invention as disclosed, shown and described in said United States patent application:

(check one) executed concurrently herewith
 executed on _____ ;
 Application No. _____ , filed _____ ;

and in and to all applications for patent and patents for invention including all divisions, reissues, continuations, substitutes and extensions thereof and all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property, including rights of priority, resulting from the filing of any of said applications; and I authorize and request any official whose duty is to issue patents, to issue any patent on said invention or resulting therefrom to said Assignee, and I agree that on request and without further consideration, but at the expense of said Assignee, I will communicate to said Assignee or its representatives all facts known to me respecting said invention and testify in any legal proceedings, sign all lawful papers, execute all divisional, continuing, continued prosecution, reissue, or other applications, make all rightful oaths and declarations, and generally do everything possible to aid said Assignee to obtain and enforce proper patent protection for said invention.

I hereby grant the following law firm the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the Rules of the U.S. Patent and Trademark Office for recordation of this document.

Mr. Irfan Lateef, Knobbe, Martens, Olson & Bear LLP, 2040 Main Street, 14th Floor, Irvine, CA 92614

ASSIGNMENT

AGG063713-USA-A
(12S0635)

[1st Inventor]

Residence Address: Ome-shi, Japan

Mailing Address: c/o Intellectual Property Division, Toshiba Corporation, 1-1, Shibaura 1-chome,
Minato-ku, Tokyo 105-8001, Japan

Citizenship: Japan

Tatsuo Nitta

Tatsuo Nitta

Oct 26, 2012

Date:

[2nd Inventor]

Residence Address: Sagamihara-shi, Japan

Mailing Address: c/o Intellectual Property Division, Toshiba Corporation, 1-1, Shibaura 1-chome,
Minato-ku, Tokyo 105-8001, Japan

Citizenship: Japan

Takayuki Kawabe

Takayuki Kawabe

Oct. 26, 2012

Date: